GOVERNOR'S OFFICE OF HIGHWAY SAFETY & ARIZONA PROSECUTING ATTORNEYS' ADVISORY COUNCIL

Present

2017 Advanced DUI Seminar

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RECENT CANNABIS STUDIES & HOW TO USE THEM

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Distributed by:

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Marijuana DUI	Recent Studies



Why Do We Need to Know the Studies?

- You need to understand marijuana impairment and be confident in your understanding to convince a jury
- May need to use studies in motions in limine, pre-trial motions
- Need to be aware to effectively communicate with your criminalist and DRE

Marijuana

- ▶ Cannabis Sativa plant
- THC: delta-9-tetrahydrocannabinol
- · Active parent drug
- n-Hydroxy-THC
- · Active metabolite N-nor-9-Carboxy-THC
- · Inactive metabolite

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NHTSA Marijuana–Impaired Driving, A Report to Congress July, 2017	
Marijuana characteristics	-
→ Fat soluble	
THC detectable w/i 1 min of smoking THC levels decline exponentially	
 Peaks at end of smoking or very soon after THC levels drop rapidly, then slows over time THC may still be in the brain while undetectable in blood 	
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Recent Studies	
 NHTSA Marijuana-Impaired Driving, A Report to Congress July, 2017 Impairment observed 2-3 hours after smoking, but THC levels decline 	-
80%–90% after one hour No agreed upon impairment standards for THC, THC levels are not an accurate measure of impairment	
 Available research does not support the development of psychomotor, behavioral or cognitive test that would be practical or feasible for law enforcement use at this time. Need to keep researching 	
Recent Studies con't]
NHTSA Marijuana-Impaired Driving, A Report to Congress	
 Prevalence of Alcohol declined from 2007 to 2014, while THC increased Studies regarding crash risk vary 	
 Marijuana does impair driving related skills such as cognitive performance and judgement, but again not tied to a specific THC level 	

Recent Stud	ies con	't
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- NHTSA Marijuana-Impaired Driving, A Report to Congress -Recommendations
- · Continue training officers (ARIDE, DRE)
- Continue research on effects of THC, develop a field test for law enforcement that would indicate impairment by THC
- Improve data collection by states regarding the prevalence and effects of marijuana-impaired driving

General S	Study	Find	ings
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- It is not safe to drive under the influence of marijuana
- · Can impair cognitive, memory and psycho-motor performance
- > Study of Cannabis effects on pilot performance
- Users not a good judge of their own impairment
- Marijuana impairment can last a long time

General Studies con't

- Its not practical to have a THC limit for driving impairment why? THC limit is not a good indicator of impairment
- Blood concentration under-represents impairment
- THC levels in blood decline rapidly, but impairment remains
- FST's are not very good at determining marijuana impairment
- BUT DRE exam, officer observations are key to proving impairment!